

⑫

EUROPEAN PATENT APPLICATION

⑫① Application number: **88308279.4**

⑫⑤ Int. Cl.4: **G 03 C 1/02**

⑫② Date of filing: **07.09.88**

⑫③① Priority: **19.09.87 JP 235569/87**

⑫③④ Date of publication of application:
29.03.89 Bulletin 89/13

⑫③④ Designated Contracting States: **DE GB IT NL**

⑫③⑧ Date of deferred publication of search report:
07.06.89 Bulletin 89/23

⑫③⑦ Applicant: **KONICA CORPORATION**
No. 26-2, Nishi-Shinjuku 1-chome Shinjuku-ku
Tokyo 106 (JP)

⑫③② Inventor: **Mochizuki, Yoshiharu**
c/o Konica Corporation 1, Sakuramachi
Hino-shi Tokyo (JP)

Ishikawa, Sadayasu
c/o Konica Corporation 1, Sakuramachi
Hino-shi Tokyo (JP)

Yagi, Toshihiko
c/o Konica Corporation 1, Sakuramachi
Hino-shi Tokyo (JP)

Inoue, Masamitsu
c/o Konica Corporation 1, Sakuramachi
Hino-shi Tokyo (JP)

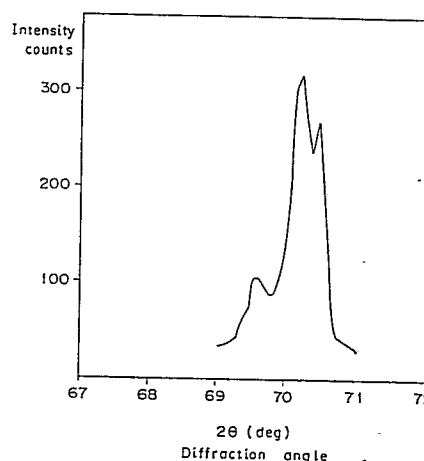
⑫③④ Representative: **Wood, Anthony Charles et al**
Urquhart-Dykes & Lord 91 Wimpole Street
London W1M 8AH (GB)

⑫③④ **High sensitivity, high graininess light-sensitive silver halide photographic material.**

⑫③⑦ A light-sensitive silver halide photographic material having at least one layer of emulsion layer containing an emulsion which is a silver halide emulsion containing silver iodobromide grains having 3 or more phases of silver bromide or silver iodobromide with different compositions, the emulsion having, in the diffraction signal according to powdery X-ray diffraction, 3 or more diffraction maximums based on the diffraction peak corresponding to the maximum iodine content phase, the diffraction peak corresponding to the minimum iodine content phase and one or plural number of diffraction peaks corresponding to the intermediate iodine content phase comprising intermediate compositions between the maximum iodine content phase and the minimum iodine content phase, and two or more diffraction minimums therebetween.

According to the present invention, there can be obtained a light-sensitive silver halide photographic material with high sensitivity and high graininess.

FIG. 1





EP 88 30 8279

DOCUMENTS CONSIDERED TO BE RELEVANT							
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)				
X	DE-A-3 310 609 (MINNESOTA MINING AND MANUFACTURING CO.) * Claims; page 9, line 28 - page 10, line 22; page 16, line 30 - page 17, line 30 *	1-18	G 03 C 1/02				
X,D	--- JOURNAL OF PHOTOGRAPHIC SCIENCE, vol. 10, pages 129-134, Royal Photographic Society, London, GB; H. HIRSCH: "Photographic emulsion grains with cores. Part 1. Evidence for the presence of cores" * Page 132, right-hand column, lines 5-12; figure 3 * -----	1-3,5-13					
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)				
			G 03 C				
The present search report has been drawn up for all claims							
Place of search THE HAGUE		Date of completion of the search 16-03-1989	Examiner BUSCHA A.J.				
<table><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</td></tr><tr><td>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	
CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document						
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document							